METHOD AND APPARATUS TO REDUCE OFF-TRACK WRITES DUE TO COIL POPPING

Abstract of the Disclosure

An actuator assembly for use in a data storage device is described that has features that reduce off-track writes due to coil popping. The fantail portion of the actuator includes thermal restraint features that engage with the over-mold, and the thermal restraint feature are positioned prevent the over-mold from separating from the actuator as a result of the over-mold and the actuator having different coefficients of thermal expansion. The thermal restraint features reduce the length of effective interface between the actuator and the over-mold acted upon by shear forces due to coefficient of thermal expansion mismatch. In one example, the thermal restraint features are holes that extend through the actuator, to allow the over-mold to flow through the holes and connect on both sides of the fantail during molding, effectively interlocking the fantail portion to the over-mold.